



HIGH-THROUGHPUT SCREENING TECHNOLOGIES THE SINGLE CELL CODE OF TENDONS

ACHILLES EDUCATIONAL SCHOOL (HYBRID EVENT)
23.-25.03.2022



**PARTICIPATING COUNTRIES:
PORTUGAL, IRLAND & GERMANY**

HOST: PROF. DR. DENITSA DOCHEVA

LOCATION: Würzburg, Germany

**PARTICIPANTS: YOUNG INVESTIGATORS
MASTER & PHD STUDENTS
POSTDOCS**


PARTICIPATION: FREE OF CHARGE

PROGRAM

Day I, 23.03.2022

Session I: Sequencing Technologies Session

@ Infosim Center, Magdalene-Schoch-Straße 7, Seminar rooms 4th Floor, Würzburg

08:20	Registration and covid self-testing ! Note: limited number of participants (currently max. 30 participants in presence)	
08:45	Opening of the Achilles School	Prof. D. Docheva & Prof. ME. Gomes
09:00	<i>Single cell sequencing technologies and their principles</i>	Dr. Sarah Hücker
10:00	Coffee break	
10:30	<i>Single sequencing workflows: Applications and critical steps</i>	Dr. Stefan Kirsch
11:30	<i>Artificial Intelligence in medicine: myths, facts, and challenges.</i>	Prof. David Meintrup
12:30	Lunch break	
13:30	 <i>Round table: Q & A</i>	Prof. D. Docheva & Prof. D. Zeugolis (moderators)
14:30	<i>Organized visit at touch science exhibition M!ND-Center</i>	
15:30	<i>Tour at the Innovation and Founding Center (IGZ) Würzburg & Laboratory tour</i>	Prof. R. Ebert & Prof. D. Docheva
16:30	End of session I	



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Day II, 24.03.2022

Session: Bioinformatics & Protein Analysis

@ Infosim Center, Magdalene-Schoch-Straße 7, Seminar rooms 4th Floor, Würzburg

08:20	Covid self-testing ! Note: limited number of participants (currently max. 30 participants in presence)	
08:45	Opening the session	Prof. D. Docheva & Prof. ME. Gomes
09:00	<i>Big data analysis;; bioinformatics and visualization</i>	Dr. Christian Remmele
10:00	Coffee break	
10:30	<i>Tendon therapies: using proteomics to characterize and analyze the effects of platelet-derived extracellular vesicles</i>	Dr. Manuel Gomez-Florit
11:30	 Round table: Q & A	Prof. D. Docheva & Prof. ME. Gomes (moderators)
12:30	Lunch break	
13:30	<i>Organized visit to Roentgen X-ray Museum</i>	
15:00	End of session II	



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Day III, 25.03.2022

Session III: ACHILLES Retreat

@ König-Ludwig-Haus, Brettreichstraße 11, Lecture hall of the Center for Mental Health

08:30	Covid self-testing	
09:00	Internal Achilles consortium retreat & collaborative activities at the horizon	Prof. D. Docheva & Prof. ME. Gomes & Teams members
	! Note: this meeting will take place at the at IGZ	
10:30	Visit to Orthopedic Hospital König-Ludwig-Haus & Bernhard-Heine-Center of Locomotion	Clinical collaborators
12:00	Lunch break & Free time	
15:50	Opening the session	Prof. Maximilian Rudert & Prof. Denitsa Docheva
	! Note: currently 85 participants in presence	
16:00	<i>Modulating hASCs tenogenic differentiation through environmental biochemical and physical cues</i>	Prof. Manuela E. Gomes
16:15	<i>Deciphering the molecular signature of tendon repair</i>	Prof. Denitsa Docheva
16:30	<i>MEW-based approaches for scaffolds with relevance to tendon regeneration</i>	Prof. Jürgen Groll
16:45	<i>3D bioprinting of mesenchymal stromal cells in hyaluronic acid-based bioinks for cartilage regeneration</i>	Prof. Torsten Blunk
17:00	<i>Musculoskeletal degenerative diseases: the clinical perspective</i>	Assoc. Prof. Konstantin Horas
17:15	<i>Bone marrow mesenchymal stromal cells: good or bad guys</i>	Prof. Regina Ebert
17:30	<i>Biomechanical test models to improve fracture fixation in trauma surgery</i>	Prof. Stephanie Hölscher-Doht
17:45	<i>Opportunities in the microtechnique & micromechanic</i>	Prof. Harald Kuhn
18:00	<i>Running and walking: the heel of Achilles in the energy cost of locomotion</i>	Prof. Billy Sperlich
18:15	<i>Stem cells for skeletal regeneration: hype and reality</i>	Prof. Brian Johnstone
18:30	End of Retreat session	
19:00	Social event of the Achilles School & Retreat	
	Alte Mainmühle, Mainkai 1, 97070 Würzburg	
	! Note: limited number of participants	



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**Venues of the ACHILLES Education School
and ACHILLES Retreat**

The **closest airport** to Würzburg is the **Frankfurt Airport (FRA)**.

How to get from the Frankfurt Airport to Würzburg?

Deutsche Bahn operates a direct train connection (ICE) from the Frankfurt Airport to Würzburg main train station (Hauptbahnhof). The journey takes about 1h 30min.



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**IGZ & Department of Musculoskeletal Tissue Regeneration
Orthopaedic Hospital König-Ludwig-Haus
& University of Wuerzburg
Friedrich-Bergius-Ring 15**



**Orthopaedic Hospital König-Ludwig-Haus
Brettreichstraße 11**

**Infosim Center
Main entrance: Magdalene-Schoch-Straße 7
Rear entrance: Landsteinerstraße 4**



**Hotel Melchior Park
Am Galgenberg 49**



**MIND Center
Touch Science Center
Matthias-Lexer-Weg 25**



**Roentgen X-ray Museum
Röntgenring 8**



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Hygiene and infection protection concept of the ACHILLES School and Retreat

We kindly ask all ACHILLES Educational School and Retreat participants who will attend the meeting in presence to support our hygiene and infection protection concept.

For entering the event's venue, wearing of a mouth and nose protection - **medical or FFP2 mask** will be required.

Admission to the event requires a **2G status** (vaccinated / boosted or recovered) declared at registration.

In addition at the beginning of every event's day **testing with rapid antigen tests** will be carried out in the registration area. Only with 2G+ negative result participants will enter the seminar and social areas of the venue.

We kindly ask all the participants to pay attention **to a safe social distance (min. 1.5 m)** at all times.

Disinfectants will be available in the entrance area of the venues for regular hand disinfection.

Rooms of the event will be regularly **ventilated**.

Do not hesitate to contact the organisers of the ACHILLES Educational School and ACHILLES Retreat if you have any questions related to the COVID-19 hygiene.

Thank you for your understanding and support!



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